BRUHAT BANGALORE MAHANAGARA PALIKE
BYATARAYANPURA DIVISION

Name of Work: Package 3, includes 3 works of 100.00 Lakhs

1. Improvements to Road and Drains at Ashwath nagar cross roads in Ward No.06 (Thanisandra), Byatarayanapura Sub Division.

PRE-MEASUREMENT

FIRST & PART BILL

TEJUS CONSULTANTS
CONSULTING ENGINEERS AND DESIGNERS
No.58 MIG, 6th Cross, 3rd Main
1st Stage, Basaveshwaranagar
Bangalore-560079
☎ 080 - 23287532
email: tejusconsultants@gmail.com

Scanned with Oken Scanner

Bruhat Bengaluru Mahanagara Palike

Bytarayanapura Division

l No :1st & Part Bill

me of Agency :- Benaka Developers & Project Pvt.Ltd.

me of Work :- Improvements to Road and Drains at Ashwath nagar cross roads in Ward .06(Thanisandra), Byatarayanapura Sub Division

OQ tem	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks / Unit
5	KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / Chapter 3 (P.No.142, I.No.19.1 of PW, P&IWTD SR 2016-17)										
	Drain Desilt										
	Ashwathnagar cross road										
	LHS										
	0.00	3.00	L/S	1	3.00			0.60	0.50	0.90	
	3.00	5.00	L/S	1	2.00			0.60	0.50	0.60	
	5.00	8.50	L/S	1	3.50			0.60	0.50	1.05	
	8.50	17.50	L/S	1	9.00			0.60	0.50	2.70	
	17.50	28.00	L/S	1	10.50			0.60	0.50	3.15	
	28.00	36.00	L/S	1	8.00			0.60	0.50	2.40	
	36.00	38.40	L/S	1	2.40			0.60	0.50	0.72	
	38.40	56.00	L/S	1	17.60			0.60	0.50	5.28	
	56.00	64.50	L/S	1	8.50			0.60	0.50	2.55	
	64.50	79.50	L/S	1	15.00			0.60	0.50	4.50	
	79.50	94.50	L/S	1	15.00			0.60	0.50	4.50	
	94.50	106.00	L/S	1	11.50			0.60	0.50	3.45	
	106.00	108.50	L/S	1	2.50			0.60	0.50	0.75	
	Hunase marada Appayanna 4th cross Chikkanna Badavane										
	LHS										
	0.00	13.50	L/S	1	13.50			0.60	0.50	4.05	BS Slab
	13.50	16.50	L/S	1	3.00			0.60	0.50	0.90	BS Slab
	16.50	22.00	L/S	1	5.50			0.60	0.50	1.65	Open drain
	22.00	28.50	L/S	1	6.50			0.60	0.50	1.95	BS Slab
	28.50	40.00	L/S	1	11.50			0.60	0.50	3.45	Deck slab
	40.00	50.00	L/S	1	10.00			0.60	0.50	3.00	BS Slab
	50.00	60.00	L/S	1	10.00			0.60	0.50	3.00	BS Slab
	60.00	70.00	L/S	1	10.00			0.60	0.50	3.00	BS Slab
	70.00	89.00	L/S	1	19.00			0.60	0.50	5.70	BS Slab
	89.00	92.00	L/S	1	3.00			0.60	0.50	0.90	Open drain
	92.00	101.00	L/S	1	9.00			0.60	0.50	2.70	RCC Slab
	101.00	104.50	L/S	1	3.50			0.60	0.50	1.05	Open drain
	104.50	110.00	L/S	1	5.50			0.60	0.50	1.65	BS Slab
	110.00	120.00	L/S	1	10.00			0.60	0.50	3.00	BS Slab
	120.00	135.00	L/S	1	15.00			0.60	0.50	4.50	BS Slab

CMFC 24/1/2021

Tejus Consultants

Contractor

Assistant Engineer

Assistant Executive Engineer

Scanned with Oken Scanner

e of Work :- Improvements to Road and Drains at Ashwath nagar cross roads in Ward (Thanisandra), Byatarayanapura Sub Division

Q m	Description Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks Unit
	135.00	150.00	L/S	1	15.00			0.60	0.50	4.50	BS Slab
	150.00	165.00	L/S	1	15.00			0.60	0.50	4.50	BS Slab
	165.00	180.00	L/S	1	15.00			0.60	0.50	4.50	BS Slab
	180.00	195.00	L/S	1	15.00			0.60	0.50	4.50	BS Slab
	195.00	210.00	L/S	1	15.00			0.60	0.50	4.50	BS Slab
	210.00	225.00	L/S	1	15.00			0.60	0.50	4.50	BS Slab
	225.00	240.00	L/S	1	15.00			0.60	0.50	4.50	BS Slab
	240.00	258.50	L/S	1	18.50			0.60	0.50	5.55	BS Slab
	258.50	280.00	L/S	1	21.50			0.60	0.50	6.45	Open drain
										CYFC	63.50
									Total Quantity	116.55	cum
									04.01.2024		

14 KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications. MORTH Specification No.301 (P.No.143, I.No.19.14 of PW,P&IWTD S.R 2016-17)

Ashwathnagar Cross road (Flag Pole)										
0.00	20.00		1	20.00	5.00	6.10	5.55	0.30	33.30	
20.00	30.00		1	10.00	6.10	5.90	6.00	0.30	18.00	
30.00	60.00		1	30.00	5.90	6.50	6.20	0.30	55.80	
60.00	90.00		1	30.00	6.50	5.60	6.05	0.30	54.45	
90.00	109.00		1	19.00	5.60	6.20	5.90	0.30	33.63	
Sri Matha Kutira House Road										
0.00	19.00		1	19.00	5.00	5.30	5.15	0.30	29.36	
19.00	31.00		1	12.00	5.00	5.20	5.10	0.30	18.36	
Hunase marada Appayanna 4th cross Chikkanna Badavane Cutportion										
0.00	18.00		1	2.40	3.70	3.70	3.70	0.30	2.66	
18.00	26.00		1	8.00	1.40	1.40	1.40	0.30	3.36	LHS
26.00	30.00		1	4.00	4.40	4.40	4.40	0.30	5.28	
30.00	40.00		1	10.00	0.70	0.70	0.70	0.30	2.10	LHS
30.00	40.00		1	2.10	2.10	2.10	2.10	0.30	1.32	RHS
40.00	47.00		1	7.00	5.10	5.10	5.10	0.30	10.71	
47.00	49.00		1	2.00	1.20	1.20	1.20	0.30	0.72	LHS
49.00	49.60		1	0.60	5.20	5.20	5.20	0.30	0.94	
49.60	59.30		1	9.70	1.80	1.80	1.80	0.30	5.24	LHS
59.30	66.00		1	6.70	5.00	5.00	5.00	0.30	10.05	
66.00	69.50		1	3.50	2.90	2.90	2.90	0.30	3.05	LHS
69.50	72.00		1	2.50	4.20	4.20	4.20	0.30	1.89	

CYFC 6/1/2024

Tejus Consultants

Contractor

Assistant Engineer

29.01.24

Assistant Executive Engineer

Scanned with Oken Scanner

: of Work :- Improvements to Road and Drains at Ashwath nagar cross roads in Ward (Thanisandra), Byatarayanapura Sub Division

Q n	Description Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks Unit
	72.00	82.00		1	10.00	1.20	1.00	1.10	0.30	3.30	LHS
	82.00	92.00		1	10.00	5.30	5.30	5.30	0.30	15.90	
	92.00	101.50		1	9.50	5.30	5.30	5.30	0.30	15.11	
	101.50	104.50		1	3.00	1.90	1.90	1.90	0.30	1.71	LHS
	101.50	104.50		1	3.00	0.80	0.80	0.80	0.30	0.72	RHS
	104.50	128.00		1	23.50	1.40	1.40	1.40	0.30	9.87	LHS
	104.50	128.00		1	23.50	2.00	2.00	2.00	0.30	14.10	RHS
	128.00	153.00		1	25.00	5.50	5.50	5.50	0.30	41.25	
	153.00	167.00		1	14.00	4.00	5.40	4.70	0.30	19.74	
	167.00	175.00		1	8.00	5.40	4.00	4.70	0.30	11.28	
	175.00	184.00		1	9.00	4.00	4.00	4.00	0.30	10.80	
	184.00	191.00		1	7.00	1.60	1.60	1.60	0.30	3.36	LHS
	191.00	195.00		1	4.00	1.80	1.80	1.80	0.30	2.16	LHS
	195.00	210.00		1	15.00	6.10	6.10	6.10	0.30	27.45	
	210.00	225.00		1	15.00	4.90	4.90	4.90	0.30	22.05	
	225.00	240.00		1	15.00	4.90	4.90	4.90	0.30	22.05	
	240.00	255.00		1	15.00	5.70	5.70	5.70	0.30	25.65	
	255.00	270.00		1	15.00	6.00	6.00	6.00	0.30	27.00	
	270.00	279.00		1	9.00	6.00	6.40	6.20	0.30	16.74	
	Manhole Deductions									C&FC 20.12.24 6/1/2024	
	MH-1 (3.14*0.9*0.9)/4			-1			0.64		0.30	-0.19	0.9 dia
	MH-2 (3.14*0.9*0.9)/4			-1			0.64		0.30	-0.19	0.9 dia
	MH-3 (3.14*0.9*0.9)/4			-1			0.64		0.30	-0.19	0.9 dia
									289.66		
								Total Quantity		579.87	Cum
15	KSRRB M 400-17, Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechaniqal mix plant carriage ' of mixed Material by tipper to site, laying in uniform layers with paver in sub- base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density.complete as per specifications. MORTH Specification No. 406 (P.No.158, I.No.20.18 of PW,P&IWTD SR 2016-17)									06.01.2024	
	Ashwathnagar Cross road (Flag Pole)										
	0.00	20.00		1	20.00	5.00	6.10	5.55	0.25	27.75	
	20.00	30.00		1	10.00	6.10	5.90	6.00	0.25	15.00	
	30.00	60.00		1	30.00	5.90	6.50	6.20	0.25	46.50	C&FC
	60.00	90.00		1	30.00	6.50	5.60	6.05	0.25	45.38	
	90.00	109.00		1	19.00	5.60	6.20	5.90	0.25	28.03	162.65

Tejus Consultants

Contractor

Assistant Engineer

Assistant Executive Engineer

BC

of Work :- Improvements to Road and Drains at Ashwath nagar cross roads in Ward (Thanisandra), Byatarayanapura Sub Division

Q n	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks / Unit
	Sri Matha Kutira House Road										
	0.00	19.00		1	19.00	5.00	5.30	5.15	0.25	24.46	
	19.00	31.00		1	12.00	5.00	5.20	5.10	0.25	15.30	
	Hunase marada Appayanna 4th cross Chikkanna Badavane										
	Cutportion										
	0.00	18.00		1	2.40	3.70	3.70	3.70	0.25	2.22	
	18.00	26.00		1	8.00	1.40	1.40	1.40	0.25	2.80	LHS
	26.00	30.00		1	4.00	4.40	4.40	4.40	0.25	4.40	
	30.00	40.00		1	10.00	0.70	0.70	0.70	0.25	1.75	LHS
	30.00	40.00		1	2.10	2.10	2.10	2.10	0.25	1.10	RHS
	40.00	47.00		1	7.00	5.10	5.10	5.10	0.25	8.93	
	47.00	49.00		1	2.00	1.20	1.20	1.20	0.25	0.60	LHS
	49.00	49.60		1	0.60	5.20	5.20	5.20	0.25	0.78	
	49.60	59.30		1	9.70	1.80	1.80	1.80	0.25	4.37	LHS
	59.30	66.00		1	6.70	5.00	5.00	5.00	0.25	8.38	
	66.00	69.50		1	3.50	2.90	2.90	2.90	0.25	2.54	LHS
	69.50	72.00		1	1.50	4.20	4.20	4.20	0.25	1.58	
	72.00	82.00		1	10.00	1.20	1.00	1.10	0.25	2.75	LHS
	82.00	92.00		1	10.00	5.30	5.30	5.30	0.25	13.25	
	92.00	101.50		1	9.50	5.30	5.30	5.30	0.25	12.59	
	101.50	104.50		1	3.00	1.90	1.90	1.90	0.25	1.43	LHS
	101.50	104.50		1	3.00	0.80	0.80	0.80	0.25	0.60	RHS
	104.50	128.00		1	23.50	1.40	1.40	1.40	0.25	8.23	LHS
	104.50	128.00		1	23.50	2.00	2.00	2.00	0.25	11.75	RHS
	128.00	153.00		1	25.00	5.50	5.50	5.50	0.25	34.38	
	153.00	167.00		1	14.00	4.00	5.40	4.70	0.25	16.45	
	167.00	175.00		1	8.00	5.40	4.00	4.70	0.25	9.40	
	175.00	184.00		1	9.00	4.00	4.00	4.00	0.25	9.00	
	184.00	191.00		1	7.00	1.60	1.60	1.60	0.25	2.80	LHS
	191.00	195.00		1	4.00	1.80	1.80	1.80	0.25	1.80	LHS
	195.00	210.00		1	15.00	6.10	6.10	6.10	0.25	22.88	
	210.00	225.00		1	15.00	4.90	4.90	4.90	0.25	18.38	
	225.00	240.00		1	15.00	4.90	4.90	4.90	0.25	18.38	
	240.00	255.00		1	15.00	5.70	5.70	5.70	0.25	21.38	
	255.00	270.00		1	15.00	6.00	6.00	6.00	0.25	22.50	
	270.00	279.00		1	9.00	6.00	6.40	6.20	0.25	13.95	
	Manhole Deductions										321.06
	MH-1 (3.14*0.9*0.9)/4			-1			0.64		0.25	-0.16	(-) 0.16 0.9 dia

320.90

Tejus Consultants

Contractor

Assistant Engineer

Assistant Executive Engineer

Scanned with Oken Scanner

of Work :- Improvements to Road and Drains at Ashwath nagar cross roads in Ward (Thanisandra), Byatarayanapura Sub Division

	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks / Unit
	MH-2 (3.14*0.9*0.9)/4		-1			0.64		0.25	-0.16	0.9 dia
	MH-3 (3.14*0.9*0.9)/4		-1			0.64		0.25	-0.16	0.9 dia
								Total Quantity	483.23	Cum
16	KSRRB M 500-6, Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kglsqm using mechanical means complete as per specifications. As per MORTH specification clause No. 502 (P.No.161, I.No.21.6 of PW,P&IWTD SR 2016-17)									
	Ashwathnagar Cross road (Flag Pole)									
	0.00	20.00		1	20.00	5.00	6.10	5.55		111.00
	20.00	30.00		1	10.00	6.10	5.90	6.00		60.00
	30.00	60.00		1	30.00	5.90	6.50	6.20		186.00
	60.00	90.00		1	30.00	6.50	5.60	6.05		181.50
	90.00	109.00		1	19.00	5.60	6.20	5.90		112.10
	Sri Matha Kutira House Road									
	0.00	19.00		1	19.00	5.00	5.30	5.15		97.85
	19.00	31.00		1	12.00	5.00	5.20	5.10		61.20
	Hunase marada Appayanna 4th cross Chikkanna Badavane Cutportion									
	0.00	18.00		1	2.40	3.70	3.70	3.70		8.88
	18.00	26.00		1	8.00	1.40	1.40	1.40		11.20
	26.00	30.00		1	4.00	4.40	4.40	4.40		17.60
	30.00	40.00		1	10.00	0.70	0.70	0.70		7.00
	30.00	40.00		1	2.10	2.10	2.10	2.10		4.41
	40.00	47.00		1	7.00	5.10	5.10	5.10		35.70
	47.00	49.00		1	2.00	1.20	1.20	1.20		2.40
	49.00	49.60		1	0.60	5.20	5.20	5.20		3.12
	49.60	59.30		1	9.70	1.80	1.80	1.80		17.46
	59.30	66.00		1	6.70	5.00	5.00	5.00		33.50
	66.00	69.50		1	3.50	2.90	2.90	2.90		10.15
	69.50	72.00		1	1.50	4.20	4.20	4.20		6.30
	72.00	82.00		1	10.00	1.20	1.00	1.10		11.00
	82.00	92.00		1	10.00	5.30	5.30	5.30		53.00
	92.00	101.50		1	9.50	5.30	5.30	5.30		50.35

Tejus Consultants

Contractor

Assistant Engineer

Assistant Executive Engineer

Scanned with Oken Scanner

of Work :- Improvements to Road and Drains at Ashwath nagar cross roads in Ward Thanisandra), Byatarayanapura Sub Division

Description		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks
Chainage										Unit
101.50	104.50		1	3.00	1.90	1.90	1.90		5.70	
101.50	104.50		1	3.00	0.80	0.80	0.80		2.40	
104.50	128.00		1	23.50	1.40	1.40	1.40		32.90	
104.50	128.00		1	23.50	2.00	2.00	2.00		47.00	
128.00	153.00		1	25.00	5.50	5.50	5.50		137.50	
153.00	167.00		1	14.00	4.00	5.40	4.70		65.80	
167.00	175.00		1	8.00	5.40	4.00	4.70		37.60	
175.00	184.00		1	9.00	4.00	4.00	4.00		36.00	
184.00	191.00		1	7.00	1.60	1.60	1.60		11.20	
191.00	195.00		1	4.00	1.80	1.80	1.80		7.20	
195.00	210.00		1	15.00	6.10	6.10	6.10		91.50	
210.00	225.00		1	15.00	4.90	4.90	4.90		73.50	
225.00	240.00		1	15.00	4.90	4.90	4.90		73.50	
240.00	255.00		1	15.00	5.70	5.70	5.70		85.50	
255.00	270.00		1	15.00	6.00	6.00	6.00		90.00	
270.00	279.00		1	9.00	6.00	6.40	6.20		55.80	
Manhole Deductions										
MH-1 (3.14*0.9*0.9)/4			-1			0.64			-0.64	
MH-2 (3.14*0.9*0.9)/4			-1			0.64			-0.64	
MH-3 (3.14*0.9*0.9)/4			-1			0.64			-0.64	
								Total Quantity	**1932.91**	**Sqm**

851.19

17	KSRRB 500-2: Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatement including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Spec, Chapter 5 (P.No.161, I.No.21.2 of PW,P&IWTD SR 2016-17)										
	Hunase marada Appayanna 4th cross Chikkanna Badavane										
	0.00	1.50		1	1.50	3.80	4.90	4.35		6.53	
	1.50	15.00		1	13.50	4.90	4.70	4.80		64.80	
	15.00	30.00		1	15.00	4.70	4.50	4.60		69.00	
	30.00	45.00		1	15.00	4.50	5.00	4.75		71.25	
	45.00	60.00		1	15.00	5.00	4.80	4.90		73.50	
	60.00	75.00		1	15.00	4.80	5.50	5.15		77.25	
	75.00	90.00		1	15.00	5.50	5.10	5.30		79.50	
	90.00	105.00		1	15.00	5.10	5.80	5.45		81.75	

523.58

Tejus Consultants

Contractor

Assistant Engineer

Assistant Executive Engineer

Name of Work :- Improvements to Road and Drains at Ashwath nagar cross roads in Ward No.36(Thanisandra), Byatarayanapura Sub Division

SQ Item	Description Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks Unit
	105.00	120.00		1	15.00	5.80	5.80	5.80		87.00	
	120.00	135.00		1	15.00	5.80	5.50	5.65		84.75	
	135.00	150.00		1	15.00	5.50	5.10	5.30		79.50	
	150.00	156.00		1	6.00	5.10	4.00	4.55		27.30	
	156.00	165.00		1	9.00	4.00	4.10	4.05		36.45	
	165.00	169.00		1	4.00	4.10	4.90	4.50		18.00	
	169.00	176.00		1	7.00	4.90	4.00	4.45		31.15	
	176.00	187.00		1	11.00	4.00	4.90	4.45		48.95	
	187.00	205.00		1	18.00	4.90	5.10	5.00		90.00	
	205.00	225.00		1	20.00	5.10	4.90	5.00		100.00	
	225.00	240.00		1	15.00	4.90	5.60	5.25		78.75	
	240.00	255.00		1	15.00	5.60	6.60	6.10		91.50	
	255.00	270.00		1	15.00	6.60	5.55	6.08		91.13	
	270.00	280.50		1	10.50	5.55	6.40	5.98		62.74	
	Manhole Deductions										
	MH-1 (3.14*0.9*0.9)/4			-1			0.64			-0.64	
	MH-2 (3.14*0.9*0.9)/4			-1			0.64			-0.64	
	MH-3 (3.14*0.9*0.9)/4			-1			0.64			-0.64	925.30
									Total Quantity	1448.88	
									Deduct Prime Coat	-1123.26	
									Total Quantity	325.62	Sqm
18	KSRRB M500-7 : Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH / Chapter 5 (P.No.161 I.No.21.7 of PW,P&IWTD SR of 2016-17)										
	Ashwathnagar Cross road (Flag Pole)										
	0.00	20.00		1	20.00	5.00	6.10	5.55		111.00	
	20.00	30.00		1	10.00	6.10	5.90	6.00		60.00	
	30.00	60.00		1	30.00	5.90	6.50	6.20		186.00	
	60.00	90.00		1	30.00	6.50	5.60	6.05		181.50	
	90.00	109.00		1	19.00	5.60	6.20	5.90		112.10	
	Sri Matha Kutira House Road										
	0.00	19.00		1	19.00	5.00	5.30	5.15		97.85	
	19.00	31.00		1	12.00	5.00	5.20	5.10		61.20	
										809.65	

Tejus Consultants

Contractor

Assistant Engineer

Assistant Executive Engineer

Scanned with Oken Scanner

: of Work :- Improvements to Road and Drains at Ashwath nagar cross roads in Ward Thanisandra), Byatarayanapura Sub Division

Q n	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks / Unit
	Hunase marada Appayanna 4th cross Chikkanna Badavane										
	0.00	1.50		1	1.50	3.80	4.90	4.35			
	1.50	15.00		1	13.50	4.90	4.70	4.80		6.53	
	15.00	30.00		1	15.00	4.70	4.50	4.60		64.80	
	30.00	45.00		1	15.00	4.50	5.00	4.75		69.00	
	45.00	60.00		1	15.00	5.00	4.80	4.90		71.25	
	60.00	75.00		1	15.00	4.80	5.50	5.15		73.50	
	75.00	90.00		1	15.00	5.50	5.10	5.30		77.25	
	90.00	105.00		1	15.00	5.10	5.80	5.45		79.50	
	105.00	120.00		1	15.00	5.80	5.80	5.80		81.75	
	120.00	135.00		1	15.00	5.80	5.50	5.65		87.00	
	135.00	150.00		1	15.00	5.50	5.10	5.30		84.75	
	150.00	156.00		1	6.00	5.10	4.00	4.55		79.50	
	156.00	165.00		1	9.00	4.00	4.10	4.05		27.30	
	165.00	169.00		1	4.00	4.10	4.90	4.50		36.45	
	169.00	176.00		1	7.00	4.90	4.00	4.45		18.00	
	176.00	187.00		1	11.00	4.00	4.90	4.45		31.15	
	187.00	205.00		1	18.00	4.90	5.10	5.00		48.95	
	205.00	225.00		1	20.00	5.10	4.90	5.00		90.00	
	225.00	240.00		1	15.00	4.90	5.60	5.25		100.00	
	240.00	255.00		1	15.00	5.60	6.60	6.10		78.75	
	255.00	270.00		1	15.00	6.60	5.55	6.08		91.50	
	270.00	280.50		1	10.50	5.55	6.40	5.98		91.13	
										62.74	
	Manhole Deductions										
	MH-1 (3.14*0.9*0.9)/4			-1				0.64		-0.64	
	MH-2 (3.14*0.9*0.9)/4			-1				0.64		-0.64	
	MH-3 (3.14*0.9*0.9)/4			-1				0.64		-0.64	1048.88
									Total Quantity	2258.53	Sqm

Tejus Consultants

Contractor

Assistant Engineer

Assistant Executive Engineer

Scanned with Oken Scanner

BRUHAT BANGALORE MAHANAGARA PALIKE
BYATARAYANPURA DIVISION

Name of Work: Package 3, includes 3 works of 100.00 Lakhs

2. Improvements to Road and Drains at Fathima Layout cross roads in Ward No.06 (Thanisandra), Byatarayanapura Sub Division.

PRE-MEASUREMENT

FIRST & PART BILL

TEJUS CONSULTANTS
CONSULTING ENGINEERS AND DESIGNERS
No.58 MIG, 6th Cross, 3rd Main
1st Stage, Basaveshwaranagar
Bangalore-560079
☎ 080 - 23287532
email: tejusconsultants@gmail.com

Scanned with Oken Scanner

Pre-Measurements

Bruhat Bengaluru Mahanagara Palike

Bytarayanapura Division

Bill No :1st & Part Bill

Name of Agency :- Benaka Developers & Project Pvt.Ltd.

Name of Work :- Improvements to Road and Drains at Fathima Layout cross roads in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks / Unit
5	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (P.No.142, I.No.19.1 of PW, P&IWTD SR 2016-17										
	Fathima Layout										
	For RCC drain										
	Opposite to Fathima Layout Main road										
	LHS										
	0.00	15.00		1	15.00			0.60	0.80	7.20	
	15.00	23.00		1	8.00			0.60	0.80	3.84	
	23.00	38.00		1	15.00			0.60	0.80	7.20	
	RHS										
	0.00	15.00		1	15.00			0.60	0.80	7.20	
	15.00	30.00		1	15.00			0.60	0.80	7.20	
	Fathima Layout										
	LHS										
	0.00	15.00		1	15.00			0.80	0.80	9.60	
	15.00	24.00		1	9.00			0.80	0.80	5.76	
	24.00	28.00		0	0.00			0.80	0.80	0.00	**c/s road**
	28.00	46.00		1	18.00			0.80	0.80	11.52	
	46.00	50.00		0	0.00			0.80	0.80	0.00	**c/s road**
	50.00	65.00		1	15.00			0.80	0.80	9.60	
	65.00	69.00		1	4.00			0.80	0.80	2.56	
	69.00	73.00		0	0.00			0.80	0.80	0.00	**c/s road**
	73.00	88.00		1	15.00			0.80	0.80	9.60	
	88.00	91.00		1	3.00			0.80	0.80	1.92	
	91.00	96.00		0	0.00			0.80	0.80	0.00	**c/s road**
	96.00	111.00		1	15.00			0.80	0.80	9.60	
	111.00	118.50		1	7.50			0.80	0.80	4.80	
	118.50	126.00		0	0.00			0.80	0.80	0.00	**c/s road**
	126.00	141.00		1	15.00			0.80	0.80	9.60	
	141.00	157.00		1	16.00			0.80	0.80	10.24	
	Masjid E-Fathima Layout road										
	0.00	15.00		1	15.00			0.80	0.80	9.60	
	15.00	22.00		1	7.00			0.80	0.80	4.48	

131.52

Tejus Consultants

Contractor

Assistant Engineer

Assistant Executive Engineer

Scanned with Oken Scanner

Pre-Measurements

Name of Work :- Improvements to Road and Drains at Fathima Layout cross roads in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks / Unit
	Concrete Roads										
	Asadullah khan house road										
	0.00	5.00		1	5.00	2.20	2.30	2.25	0.20	2.25	
	5.00	7.00		1	2.00	2.30	2.20	2.25	0.20	0.90	
	7.00	10.00		1	3.00	2.20	2.30	2.25	0.20	1.35	
	10.00	15.00		1	5.00	2.30	2.80	2.55	0.20	2.55	
	15.00	20.00		1	5.00	2.80	2.50	2.65	0.20	2.65	
	20.00	25.00		1	5.00	2.50	2.20	2.35	0.20	2.35	
	25.00	30.00		1	5.00	2.20	2.60	2.40	0.20	2.40	
	MS Nandini Milk Road LHS										
	0.00	10.00		1	10.00	3.20	3.30	3.25	0.20	6.50	
	10.00	20.00		1	10.00	3.30	3.00	3.15	0.20	6.30	
	20.00	30.00		1	10.00	3.00	2.80	2.90	0.20	5.80	
	30.00	36.00		1	6.00	2.80	3.00	2.90	0.20	3.48	
	MS Nandini Milk Opposite Road										
	0.00	4.00		1	4.00	2.40	2.00	2.20	0.20	1.76	
	4.00	12.00		1	8.00	2.00	1.70	1.85	0.20	2.96	
	12.00	20.00		1	8.00	1.70	1.70	1.70	0.20	2.72	
	20.00	30.00		1	10.00	1.70	1.60	1.65	0.20	3.30	
	30.00	36.00		1	6.00	1.60	1.70	1.65	0.20	1.98	
	Masjid Opp.road										
	0.00	5.00		1	5.00	2.90	2.80	2.85	0.20	2.85	
	5.00	10.00		1	5.00	2.80	2.10	2.45	0.20	2.45	
	10.00	19.30		1	9.30	2.10	3.20	2.65	0.20	4.93	
	19.30	26.90		1	7.60	3.20	3.00	3.10	0.20	4.71	
	26.90	33.90		1	7.00	3.00	3.60	3.30	0.20	4.62	
	33.90	42.50		1	8.60	3.60	3.50	3.55	0.20	6.11	
	Culvert Desilt(2nd phase Balajikrupa			1	6.00			0.60	0.60	2.16	
	SSM Culvert (2nd Main Rd, 2nd Phase, Sri Balaji Krupa			1	5.40			2.00	0.50	5.40	82.48
								Total Quantity		**214.00**	**Cum**

C/F ₹ 5/11/2021

Tejus Consultants

Contractor

Assistant Engineer

Assistant Executive Engineer

Scanned with Oken Scanner

Pre-Measurements

ame of Work :- Improvements to Road and Drains at Fathima Layout cross roads in Ward .06(Thanisandra), Byatarayanapura Sub Division

BOQ Item	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks / Unit
8	KSRB 4-1.7 : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregtes @ 0.56cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 Page No.13 It No.4.7										
	Fathima Layout										
	For RCC drain										
	Opposite to Fathima Layout Main road										
	LHS										
	0.00	15.00		1	15.00			0.60	0.10	0.90	
	15.00	23.00		1	8.00			0.60	0.10	0.48	
	23.00	38.00		1	15.00			0.60	0.10	0.90	
	RHS										
	0.00	15.00		1	15.00			0.60	0.10	0.90	
	15.00	30.00		1	15.00			0.60	0.10	0.90	
	Fathima Layout										
	LHS										
	0.00	15.00		1	15.00			0.80	0.10	1.20	
	15.00	24.00		1	9.00			0.80	0.10	0.72	
	24.00	28.00		0	0.00			0.80	0.10	0.00	c/s road
	28.00	46.00		1	18.00			0.80	0.10	1.44	
	46.00	50.00		0	0.00			0.80	0.10	0.00	c/s road
	50.00	65.00		1	15.00			0.80	0.10	1.20	
	65.00	69.00		1	4.00			0.80	0.10	0.32	
	69.00	73.00		0	0.00			0.80	0.10	0.00	c/s road
	73.00	88.00		1	15.00			0.80	0.10	1.20	
	88.00	91.00		1	3.00			0.80	0.10	0.24	
	91.00	96.00		0	0.00			0.80	0.10	0.00	c/s road
	96.00	111.00		1	15.00			0.80	0.10	1.20	
	111.00	118.50		1	7.50			0.80	0.10	0.60	
	118.50	126.00		0	0.00			0.80	0.10	0.00	c/s road
	126.00	141.00		1	15.00			0.80	0.10	1.20	
	141.00	157.00		1	16.00			0.80	0.10	1.28	
	Masjid E-Fathima Layout road										
	0.00	15.00		1	15.00			0.80	0.10	1.20	
	15.00	22.00		1	7.00			0.80	0.10	0.56	
	Concrete Roads										
	Asadullah khan house road										
	0.00	5.00		1	5.00	2.20	2.30	2.25	0.15	1.69	
	5.00	7.00		1	2.00	2.30	2.20	2.25	0.15	0.68	

18.80

Tejus Consultants

Contractor

Assistant Engineer

Assistant Executive Engineer

Scanned with Oken Scanner

ame of Work :- Improvements to Road and Drains at Fathima Layout cross roads in Ward .06(Thanisandra), Byatarayanapura Sub Division

BOQ Item	Description Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks Unit
	7.00	10.00		1	3.00	2.20	2.30	2.25	0.15	1.01	
	10.00	15.00		1	5.00	2.30	2.80	2.55	0.15	1.91	
	15.00	20.00		1	5.00	2.80	2.50	2.65	0.15	1.99	
	20.00	25.00		1	5.00	2.50	2.20	2.35	0.15	1.76	
	25.00	30.00		1	5.00	2.20	2.60	2.40	0.15	1.80	
	MS Nandini Milk Road LHS										
	0.00	10.00		1	10.00	3.20	3.30	3.25	0.15	4.88	
	10.00	20.00		1	10.00	3.30	3.00	3.15	0.15	4.73	
	20.00	30.00		1	10.00	3.00	2.80	2.90	0.15	4.35	
	30.00	36.00		1	6.00	2.80	3.00	2.90	0.15	2.61	
	MS Nandini Milk Opposite Road										
	0.00	4.00		1	4.00	2.40	2.00	2.20	0.15	1.32	
	4.00	12.00		1	8.00	2.00	1.70	1.85	0.15	2.22	
	12.00	20.00		1	8.00	1.70	1.70	1.70	0.15	2.04	
	20.00	30.00		1	10.00	1.70	1.60	1.65	0.15	2.48	
	30.00	36.00		1	6.00	1.60	1.70	1.65	0.15	1.49	
	Masjid Opp.road										
	0.00	5.00		1	5.00	2.90	2.80	2.85	0.15	2.14	
	5.00	10.00		1	5.00	2.80	2.10	2.45	0.15	1.84	
	10.00	19.30		1	9.30	2.10	3.20	2.65	0.15	3.70	
	19.30	26.90		1	7.60	3.20	3.00	3.10	0.15	3.53	
	26.90	33.90		1	7.00	3.00	3.60	3.30	0.15	3.47	
	33.90	42.50		1	8.60	3.60	3.50	3.55	0.15	4.58	
	SSM Culvert (2nd Main			1	5.40			2.00	0.15	1.62	55.45
								Total Quantity		**74.25**	**Cum**
9	KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2 (P.No.15 /I.No. 4.28 of CSR 2016-17)										
	Fathima Layout										
	For Bottom Slab										
	Opposite to Fathima Layout Main road										
	LHS										
	0.00	15.00		2	15.00				0.10	3.00	
	15.00	23.00		2	8.00				0.10	1.60	
	23.00	38.00		2	15.00				0.10	3.00	

7.60

Tejus Consultants

Contractor

Assistant Engineer

Assistant Executive Engineer

Scanned with Oken Scanner

Pre-Measurements

of Work :- Improvements to Road and Drains at Fathima Layout cross roads in Ward (Thanisandra), Byatarayanapura Sub Division

Q n	Description		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks / Unit
	Chainage										
	RHS										
	0.00	15.00		2	15.00				0.10	3.00	
	15.00	30.00		2	15.00				0.10	3.00	
	Fathima Layout										
	LHS										
	0.00	15.00		2	15.00				0.10	3.00	
	15.00	24.00		2	9.00				0.10	1.80	
	24.00	28.00		2	0.00				0.10	0.00	
	28.00	46.00		2	18.00				0.10	3.60	
	46.00	50.00		2	0.00				0.10	0.00	
	50.00	65.00		2	15.00				0.10	3.00	
	65.00	69.00		2	4.00				0.10	0.80	
	69.00	73.00		2	0.00				0.10	0.00	
	73.00	88.00		2	15.00				0.10	3.00	
	88.00	91.00		2	3.00				0.10	0.60	
	91.00	96.00		2	0.00				0.10	0.00	
	96.00	111.00		2	15.00				0.10	3.00	
	111.00	118.50		2	7.50				0.10	1.50	
	118.50	126.00		2	0.00				0.10	0.00	
	126.00	141.00		2	15.00				0.10	3.00	
	141.00	157.00		2	16.00				0.10	3.20	
	Masjid E-Fathima Layout road										
	0.00	15.00		2	15.00				0.10	3.00	
	15.00	22.00		2	7.00				0.10	1.40	36.90
								Total Quantity		44.50	Sqm
10	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (P.No.15 /I.No. 4.31 of CSR 2016-17)										
	Fathima Layout										
	For Side Walls										
	Opposite to										
	LHS										
	0.00	15.00		4	15.00				0.60	36.00	
	15.00	23.00		4	8.00				0.60	19.20	
	23.00	38.00		4	15.00				0.60	36.00	
	RHS										
	0.00	15.00		4	15.00				0.60	36.00	
	15.00	30.00		4	15.00				0.60	36.00	163.20

Tejus Consultants

Contractor

Assistant Engineer

Assistant Executive Engineer

Scanned with Oken Scanner

Name of Work :- Improvements to Road and Drains at Fathima Layout cross roads in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks / Unit
	Fathima Layout										
	LHS										
	0.00	15.00		4	15.00				0.60	36.00	
	15.00	24.00		4	9.00				0.60	21.60	
	24.00	28.00		4	0.00				0.60	0.00	
	28.00	46.00		4	18.00				0.60	43.20	
	46.00	50.00		4	0.00				0.60	0.00	
	50.00	65.00		4	15.00				0.60	36.00	
	65.00	69.00		4	4.00				0.60	9.60	
	69.00	73.00		4	0.00				0.60	0.00	
	73.00	88.00		4	15.00				0.60	36.00	
	88.00	91.00		4	3.00				0.60	7.20	
	91.00	96.00		4	0.00				0.60	0.00	
	96.00	111.00		4	15.00				0.60	36.00	
	111.00	118.50		4	7.50				0.60	18.00	
	118.50	126.00		4	0.00				0.60	0.00	
	126.00	141.00		4	15.00				0.60	36.00	
	141.00	157.00		4	16.00				0.60	38.40	
	Masjid E-Fathima Layout road										
	0.00	15.00		4	15.00				0.60	36.00	
	15.00	22.00		4	7.00				0.60	16.80	370.80
								Total Quantity		534.00	Sqm
11	Providing and laying cement concrete using 20mm and downsize granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) for RCC works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, with all lead and lifts etc., complete (exclusive of cpost of steel and fabricaton charges) Ready Mixed Cement Concrete M 20 for Raft foundation, Column, Footing, main and secondary beams. (P.No.18, I.No.4.48 of PW, P&IWTD SR 2016-										
	For Raft										
	For RCC drain										
	Opposite to Fathima Layout Main road										
	LHS										
	0.00	15.00		1	15.00			0.58	0.10	0.87	
	15.00	23.00		1	8.00			0.58	0.10	0.46	
	23.00	38.00		1	15.00			0.58	0.10	0.87	
	RHS										
	0.00	15.00		1	15.00			0.58	0.10	0.87	
	15.00	30.00		1	15.00			0.58	0.10	0.87	
											3.94

Tejus Consultants

Contractor

Assistant Engineer 28.01.2024

Assistant Executive Engineer

Name of Work :- Improvements to Road and Drains at Fathima Layout cross roads in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks / Unit
	Fathima Layout										
	LHS										
	0.00	15.00		1	15.00			0.60	0.10	0.90	
	15.00	24.00		1	9.00			0.60	0.10	0.54	
	24.00	28.00		0	0.00			0.60	0.10	0.00	c/s road
	28.00	46.00		1	18.00			0.60	0.10	1.08	
	46.00	50.00		0	0.00			0.60	0.10	0.00	c/s road
	50.00	65.00		1	15.00			0.60	0.10	0.90	
	65.00	69.00		1	4.00			0.60	0.10	0.24	
	69.00	73.00		0	0.00			0.60	0.10	0.00	c/s road
	73.00	88.00		1	15.00			0.60	0.10	0.90	
	88.00	91.00		1	3.00			0.60	0.10	0.18	
	91.00	96.00		0	0.00			0.60	0.10	0.00	c/s road
	96.00	111.00		1	15.00			0.60	0.10	0.90	
	111.00	118.50		1	7.50			0.60	0.10	0.45	
	118.50	126.00		0	0.00			0.60	0.10	0.00	c/s road
	126.00	141.00		1	15.00			0.60	0.10	0.90	
	141.00	157.00		1	16.00			0.60	0.10	0.96	
	Masjid E-Fathima Layout road										
	0.00	15.00		1	15.00			0.60	0.10	0.90	
	15.00	22.00		1	7.00			0.60	0.10	0.42	
	Side Walls										
	Opposite to Fathima Layout Main road										
	LHS										
	0.00	15.00		2	15.00			0.10	0.60	1.80	
	15.00	23.00		2	8.00			0.10	0.60	0.96	
	23.00	38.00		2	15.00			0.10	0.60	1.80	
	RHS										
	0.00	15.00		2	15.00			0.10	0.60	1.80	
	15.00	30.00		2	15.00			0.10	0.60	1.80	
	Fathima Layout										
	0.00	15.00		2	15.00			0.10	0.60	1.80	
	15.00	24.00		2	9.00			0.10	0.60	1.08	
	24.00	28.00		0	0.00			0.10	0.60	0.00	c/s road
	28.00	46.00		2	18.00			0.10	0.60	2.16	
	46.00	50.00		0	0.00			0.10	0.60	0.00	c/s road
	50.00	65.00		2	15.00			0.10	0.60	1.80	
	65.00	69.00		2	4.00			0.10	0.60	0.48	
	69.00	73.00		0	0.00			0.10	0.60	0.00	c/s road
	73.00	88.00		2	15.00			0.10	0.60	1.80	26.55

CPEC 28/1/2021

Tejus Consultants

Contractor

Assistant Engineer

Assistant Executive Engineer

Scanned with Oken Scanner

Pre-Measurements

Name of Work :- Improvements to Road and Drains at Fathima Layout cross roads in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item	Description Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks Unit
	88.00	91.00		2	3.00			0.10	0.60	0.36	
	91.00	96.00		0	0.00			0.10	0.60	0.00	c/s road
	96.00	111.00		2	15.00			0.10	0.60	1.80	
	111.00	118.50		2	7.50			0.10	0.60	0.90	
	118.50	126.00		0	0.00			0.10	0.60	0.00	c/s road
	126.00	141.00		2	15.00			0.10	0.60	1.80	
	141.00	157.00		2	16.00			0.10	0.60	1.92	
	Masjid E-Fathima Layout road										
	0.00	15.00		2	15.00			0.10	0.60	1.80	
	15.00	22.00		2	7.00			0.10	0.60	0.84	
	Side concrete for drain										
	0.00	15.00		1	15.00			0.30	0.10	0.45	
	15.00	24.00		1	9.00			0.30	0.10	0.27	
	24.00	28.00		0	0.00			0.30	0.10	0.00	c/s road
	28.00	46.00		1	18.00			0.30	0.10	0.54	
	46.00	50.00		0	0.00			0.30	0.10	0.00	c/s road
	50.00	65.00		1	15.00			0.30	0.10	0.45	
	65.00	69.00		1	4.00			0.30	0.10	0.12	
	69.00	73.00		0	0.00			0.30	0.10	0.00	c/s road
	73.00	88.00		1	15.00			0.30	0.10	0.45	
	88.00	91.00		1	3.00			0.30	0.10	0.09	
	91.00	96.00		0	0.00			0.30	0.10	0.00	c/s road
	96.00	111.00		1	15.00			0.30	0.10	0.45	
	111.00	118.50		1	7.50			0.30	0.10	0.23	
	118.50	126.00		0	0.00			0.30	0.10	0.00	c/s road
	126.00	141.00		1	15.00			0.30	0.10	0.45	
	141.00	157.00		1	16.00			0.30	0.10	0.48	
	Masjid E-Fathima Layout road										
	0.00	15.00		1	15.00			0.30	0.10	0.45	14.06
	15.00	22.00		1	7.00			0.30	0.10	0.21	
								Total Quantity		44.55	Cum

Tejus Consultants

Contractor

Assistant Engineer

Assistant Executive Engineer

Scanned with Oken Scanner

Name of Work :- Improvements to Road and Drains at Fathima Layout cross roads in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks / Unit
12	KSRRB - M2300-14: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specifications.Specification for TMT bars Fe 500(Page No-229. INo.28.8.2 2018-19)									
	New Drain									
	Opposite to Fathima Layout Main road									
	LHS									
	10 mm main U bars									
	Main Bar									
	0.00 – 38.00		1	201	1.68		0.617		208.35	
	8mm Distribution Bar									
	0.00 – 38.00		1	8	38.00		0.395		120.08	
	RHS									
	10 mm main U bars									
	Main Bar									
	0.00 – 30.00		1	159	1.68		0.617		164.81	
	8mm Distribution Bar									
	0.00 – 30.00		1	8	30.00		0.395		94.80	
	Fathima Layout									
	10 mm main U bars									
	Main Bar									
	0.00 – 132.50		1	701	1.70		0.617		735.28	
	8mm Distribution Bar									
	0.00 – 132.50		1	9	132.50		0.395		471.04	
	Masjid E-Fathima Layout road									
	10 mm main U bars									
	Main Bar									
	0.00 – 22.00		1	116	1.68		0.617		119.88	
	8mm Distribution Bar									
	0.00 – 22.00		1	8	22.00		0.395		69.52	1983.76
							Total		1,983.76	
							Total quantity		**1.98**	**Tonne**

CPC 22/11/24

Tejus Consultants

Contractor

Assistant Engineer

28.01.2024

Assistant Executive Engineer

Scanned with Oken Scanner

Name of Work :- Improvements to Road and Drains at Fathima Layout cross roads in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks / Unit
21	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 .(P.No.23, I.No.5.6 of PW,P&IWTD SR 2016-17)									
	SSM Culvert (2nd Main Rd, 2nd Phase, Sri Balaji Kruna		2.00	5.40			0.60	0.45	2.92	2.92
							Total quantity		**2.92**	**Cum**
23	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No. 4.6 of PWD SR 2016-17)									
	Coping Concrete									
	Culvert Desilt(2nd phase		2	6.00			0.45	0.10	0.54	
	SSM Culvert (2nd Main		2	5.40			0.60	0.10	0.65	
										1.19
							Total quantity		**1.19**	**Cum**
28	Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift.(P.No.177, I.No.22.7 of PW, P&IWTD SR 2016-17)									
	Concrete Roads									
	Asadullah khan house road									
	0.00	5.00		1	5.00	2.20	2.30	2.25		11.25
	5.00	7.00		1	2.00	2.30	2.20	2.25		4.50
	7.00	10.00		1	3.00	2.20	2.30	2.25		6.75
	10.00	15.00		1	5.00	2.30	2.80	2.55		12.75
	15.00	20.00		1	5.00	2.80	2.50	2.65		13.25
	20.00	25.00		1	5.00	2.50	2.20	2.35		11.75
	25.00	30.00		1	5.00	2.20	2.60	2.40		12.00
	MS Nandini Milk Road LHS									
	0.00	10.00		1	10.00	3.20	3.30	3.25		32.50
	10.00	20.00		1	10.00	3.30	3.00	3.15		31.50
	20.00	30.00		1	10.00	3.00	2.80	2.90		29.00
	30.00	36.00		1	6.00	2.80	3.00	2.90		17.40
										182.65

Tejus Consultants

Contractor

Assistant Engineer

Assistant Executive Engineer

Scanned with Oken Scanner

Pre-Measurements

Name of Work :- Improvements to Road and Drains at Fathima Layout cross roads in [redacted]06(Thanisandra), Byatarayanapura Sub Division

BOQ Item	Description Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Unit
	MS Nandini Milk Opposite Road										
	0.00	4.00		1	4.00	2.40	2.00	2.20		8.80	
	4.00	12.00		1	8.00	2.00	1.70	1.85		14.80	
	12.00	20.00		1	8.00	1.70	1.70	1.70		13.60	
	20.00	30.00		1	10.00	1.70	1.60	1.65		16.50	
	30.00	36.00		1	6.00	1.60	1.70	1.65		9.90	
	Masjid Opp.road										
	0.00	5.00		1	5.00	2.90	2.80	2.85		14.25	
	5.00	10.00		1	5.00	2.80	2.10	2.45		12.25	
	10.00	19.30		1	9.30	2.10	3.20	2.65		24.65	
	19.30	26.90		1	7.60	3.20	3.00	3.10		23.56	
	26.90	33.90		1	7.00	3.00	3.60	3.30		23.10	
	33.90	42.50		1	8.60	3.60	3.50	3.55		30.53	191.94
								Total quantity		**374.59**	**Sqm**

Tejus Consultants

Contractor

Assistant Engineer

Assistant Executive Engineer

Scanned with Oken Scanner

BRUHAT BANGALORE MAHANAGARA PALIKE
BYATARAYANPURA DIVISION

Name of Work: Package 3, includes 3 works of 100.00 Lakhs

3. Improvements to Road and Drains at Saraipalya Vidyasagar cross roads in Ward No.06 (Thanisandra), Byatarayanapura Sub Division.

PRE-MEASUREMENT

FIRST & PART BILL

TEJUS CONSULTANTS
CONSULTING ENGINEERS AND DESIGNERS
No.58 MIG, 6th Cross, 3rd Main
1st Stage, Basaveshwaranagar
Bangalore-560079
☎ 080 - 23287532
email: tejusconsultants@gmail.com

Scanned with Oken Scanner

Bruhat Bengaluru Mahanagara Palike

Bytarayanapura Division

Bill No :1st & Part Bill

Name of Agency :- Benaka Developers & Project Pvt.Ltd.

Name of Work :- Improvements to Road and Drains at Saraipalya Vidyasagar cross roads in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks / Unit
5	KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neately dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / Chapter 3 (P.No.142, I.No.19.1 of PW, P&IWTD SR 2016-17)										
	Drain Desilt										
	Tuba layout										
	RHS										
	0.00	14.00	R/S	1	14.00			0.60	0.50	4.20	RCC Slab
	14.00	19.00	R/S	1	5.00			0.60	0.50	1.50	Cross road
	19.00	25.00	R/S	1	6.00			0.60	0.50	1.80	RCC Slab
	25.00	40.00	R/S	1	15.00			0.60	0.50	4.50	RCC Slab
	40.00	48.50	R/S	1	8.50			0.60	0.50	2.55	BS slab
	48.50	55.00	R/S	1	6.50			0.60	0.50	1.95	BS slab
	55.00	69.00	R/S	1	14.00			0.60	0.50	4.20	Open drain
	69.00	80.00	R/S	1	11.00			0.60	0.50	3.30	RCC Slab
	80.00	86.00	R/S	1	6.00			0.60	0.50	1.80	BS slab
	86.00	94.30	R/S	1	8.30			0.60	0.50	2.49	RCC Slab
	Cross road (Masjidi Road)										
	RHS										
	0.00	5.00	R/S	1	5.00			0.60	0.50	1.50	RCC Slab
	5.00	19.00	R/S	1	14.00			0.60	0.50	4.20	Only desilt
	19.00	30.00	R/S	1	11.00			0.60	0.50	3.30	RCC Slab
	30.00	45.00	R/S	1	15.00			0.60	0.50	4.50	RCC Slab
	45.00	60.00	R/S	1	15.00			0.60	0.50	4.50	RCC Slab
	60.00	75.00	R/S	1	15.00			0.60	0.50	4.50	RCC Slab
	75.00	90.00	R/S	1	15.00			0.60	0.50	4.50	RCC Slab
	90.00	96.00	R/S	1	6.00			0.60	0.50	1.80	RCC Slab
	Vidyasagar 1st main road										
	LHS										
	0.00	15.00		1	15.00			0.60	0.50	4.50	RCC Slab
	15.00	34.00		1	19.00			0.60	0.50	5.70	RCC Slab
	For New Drain										
	Sri Sai Balaji Builders beside road										
	LHS										
	0.00	15.00		1	15.00			1.10	0.90	14.85	82.14

CHC 18/1/2021

Tejus Consultants

Contractor

Assistant Engineer 18.01.2021

Sub Assistant Executive Engineer 18/1/2021

Scanned with Oken Scanner

Name of Work :- Improvements to Road and Drains at Saraipalya Vidyasagar cross roads in Ward No.06(Thanisandra), Byatarayanapura Sub Division

BOQ Item	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks / Unit
	15.00	30.00		1	15.00			1.10	0.90	14.85	
	30.00	44.00		1	14.00			1.10	0.90	13.86	
	44.00	57.00		1	13.00			1.10	0.90	12.87	
	57.00	62.00		1	5.00			1.10	0.90	4.95	
	62.00	71.00		1	9.00			1.10	0.90	8.91	
	71.00	87.00		1	16.00			1.10	0.90	15.84	
	RHS										
	68.00	87.00		1	19.00			1.10	0.90	18.81	90.09
								Total Quantity		172.23	cum
8	KSRB 4-1.7 : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregtes @ 0.56cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 Page No.13 It No.4.7										
	Sri Sai Balaji										
	LHS										
	0.00	15.00		1	15.00			1.10	0.15	2.48	
	15.00	30.00		1	15.00			1.10	0.15	2.48	
	30.00	44.00		1	14.00			1.10	0.15	2.31	
	44.00	57.00		1	13.00			1.10	0.15	2.15	
	57.00	62.00		1	5.00			1.10	0.15	0.83	
	62.00	71.00		1	9.00			1.10	0.15	1.49	
	71.00	87.00		1	16.00			1.10	0.15	2.64	
	RHS										
	68.00	87.00		1	19.00			1.10	0.15	3.14	30/1/24
								Total Quantity		17.49	Cum
9	KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2 (P.No.15 /I.No. 4.28 of CSR 2016-17)										
	Sri Sai Balaji Builders beside road										
	For Bottom Slab										
	Sri Sai Balaji Builders beside road										
	LHS										
	0.00	15.00		2	15.00				0.15	4.50	
	15.00	30.00		2	15.00				0.15	4.50	
	30.00	44.00		2	14.00				0.15	4.20	
	44.00	57.00		2	13.00				0.15	3.90	17.10

Tejus Consultants

Contractor

Assistant Engineer

Assistant Executive Engineer

Name of Work :- Improvements to Road and Drains at Saraipalya Vidyasagar cross roads in Ward No.36(Thanisandra), Byatarayanapura Sub Division

BOQ Item	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks / Unit
	57.00	62.00		2	5.00				0.15	1.50	
	62.00	71.00		2	9.00				0.15	2.70	
	71.00	87.00		2	16.00				0.15	4.80	
	RHS										
	68.00	87.00		2	19.00				0.15	5.70	
								Total Quantity		**31.80**	**Sqm**
10	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (P.No.15 /I.No. 4.31 of CSR 2016-17)										
	Sri Sai Balaji Builders beside road										
	For Side Walls										
	Sri Sai Balaji Builders beside road										
	LHS										
	0.00	15.00		4	15.00				0.60	36.00	
	15.00	30.00		4	15.00				0.60	36.00	
	30.00	44.00		4	14.00				0.60	33.60	
	44.00	57.00		4	13.00				0.60	31.20	
	57.00	62.00		4	5.00				0.60	12.00	
	62.00	71.00		4	9.00				0.60	21.60	
	71.00	87.00		4	16.00				0.60	38.40	
	RHS										
	68.00	87.00		4	19.00				0.60	45.60	
								Total Quantity		**254.40**	**Sqm**
11	Providing and laying cement concrete using 20mm and downsize granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) for RCC works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, with all lead and lifts etc., complete (exclusive of cpost of steel and fabricaton charges) Ready Mixed Cement Concrete M 20 for Raft foundation, Column, Footing, main and secondary beams. (P.No.18, I.No.4.48 of PW, P&IWTD										
	For Raft										
	Sri Sai Balaji Builders beside road										
	LHS										
	0.00	15.00		1	15.00			0.90	0.15	2.03	
	15.00	30.00		1	15.00			0.90	0.15	2.03	
	30.00	44.00		1	14.00			0.90	0.15	1.89	
	44.00	57.00		1	13.00			0.90	0.15	1.76	
	57.00	62.00		1	5.00			0.90	0.15	0.68	
	62.00	71.00		1	9.00			0.90	0.15	1.22	9.59

Tejus Consultants

Contractor

Assistant Engineer

Assistant Executive Engineer

Name of Work :- Improvements to Road and Drains at Saraipalya Vidyasagar cross roads in Ward 186(Thanisandra), Byatarayanapura Sub Division

BOQ Item	Description	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks Unit
	Chainage 71.00 87.00									
	RHS		1	16.00			0.90	0.15	2.16	
	68.00 87.00									
	Side Walls		1	19.00			0.90	0.15	2.57	
	Sri Sai Balaji Builders beside road									
	LHS									
	0.00 15.00		2	15.00			0.15	0.60	2.70	
	15.00 30.00		2	15.00			0.15	0.60	2.70	
	30.00 44.00		2	14.00			0.15	0.60	2.52	
	44.00 57.00		2	13.00			0.15	0.60	2.34	
	57.00 62.00		2	5.00			0.15	0.60	0.90	
	62.00 71.00		2	9.00			0.15	0.60	1.62	
	71.00 87.00		2	16.00			0.15	0.60	2.88	
	RHS									
	68.00 87.00		2	19.00			0.15	0.60	3.42	23.81
							Total Quantity		33.39	Cum
12	KSRRB - M2300-14: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specifications.Specification for TMT bars Fe 500(Page No-229. INo.28.8.2 2018-19)									
	New Drain									
	Sri Sai Balaji Builders beside road									
	LHS									
	10 mm main U bars									
	Main Bar									
	0.00 87.00		1	725	1.90		0.617		849.92	
	8mm Distribution Bar									
	0.00 87.00		1	14	87.00		0.395		481.11	
	RHS									
	10 mm main U bars									
	Main Bar									
	0.00 19.00		1	158	1.90		0.617		185.22	
	8mm Distribution Bar									
	0.00 19.00		1	14	19.00		0.395		105.07	
							Total		1,621.32	
							Total quantity		1.62	Tonne

Tejus Consultants

Contractor

Assistant Engineer

Assistant Executive Engineer

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Name of Work :- Improvements to Road and Drains at Saraipalya Vidyasagar cross roads in Ward No.96(Thanisandra), Byatarayanapura Sub Division

BOQ Item	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks / Unit
14	KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications. MORTH Specification No.301 (P.No.143, I.No.19.14 of PW,P&IWTD S.R 2016-17)										
	Vidhya sagar										
	Tuba layout										
	0.00	15.00		1	15.00	6.60	6.50	6.55	0.30	29.48	
	15.00	30.00		1	15.00	6.50	6.60	6.55	0.30	29.48	
	30.00	45.00		1	15.00	6.60	6.10	6.35	0.30	28.58	
	45.00	60.00		1	15.00	6.10	7.60	6.85	0.30	30.83	
	60.00	75.00		1	15.00	7.60	6.70	7.15	0.30	32.18	
	75.00	90.00		1	15.00	6.70	5.30	6.00	0.30	27.00	
	90.00	108.50		1	18.50	5.30	5.40	5.35	0.30	29.69	
	Cross road (Masjidi Road)										
	0.00	15.00		1	15.00	5.10	5.30	5.20	0.30	23.40	
	15.00	30.00		1	15.00	5.30	5.20	5.25	0.30	23.63	
	30.00	45.00		1	15.00	5.20	4.60	4.90	0.30	22.05	
	45.00	60.00		1	15.00	4.60	4.70	4.65	0.30	20.93	
	60.00	75.00		1	15.00	4.70	4.70	4.70	0.30	21.15	
	75.00	86.00		1	11.00	4.70	3.70	4.20	0.30	13.86	
	86.00	90.00		1	4.00	3.70	3.70	3.70	0.30	4.44	
	90.00	95.00		1	5.00	3.70	3.70	3.70	0.30	5.55	
									Total quantity	**342.22**	**Cum**
15	KSRRB M 400-17, Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechaniqal mix plant carriage ' of mixed Material by tipper to site, laying in uniform layers with paver in sub- base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density.complete as per specifications. MORTH Specification No. 406 (P.No.158, I.No.20.18 of PW,P&IWTD SR 2016-17)										
	Vidhya sagar										
	Tuba layout										
	0.00	15.00		1	15.00	6.60	6.50	6.55	0.25	24.56	
	15.00	30.00		1	15.00	6.50	6.60	6.55	0.25	24.56	
	30.00	45.00		1	15.00	6.60	6.10	6.35	0.25	23.81	
	45.00	60.00		1	15.00	6.10	7.60	6.85	0.25	25.69	
	60.00	75.00		1	15.00	7.60	6.70	7.15	0.25	26.81	

Tejus Consultants

Contractor

Assistant Engineer

Assistant Executive Engineer

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ame of Work :- Improvements to Road and Drains at Saraipalya Vidyasagar cross roads in Ward 06(Thanisandra), Byatarayanapura Sub Division

BOQ Item	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks / Unit
	75.00	90.00		1	15.00	6.70	5.30	6.00	0.25	22.50	
	90.00	108.50		1	18.50	5.30	5.40	5.35	0.25	24.74	
	Cross road (Masjidi Road)										
	0.00	15.00		1	15.00	5.10	5.30	5.20	0.25	19.50	
	15.00	30.00		1	15.00	5.30	5.20	5.25	0.25	19.69	
	30.00	45.00		1	15.00	5.20	4.60	4.90	0.25	18.38	
	45.00	60.00		1	15.00	4.60	4.70	4.65	0.25	17.44	
	60.00	75.00		1	15.00	4.70	4.70	4.70	0.25	17.63	
	75.00	86.00		1	11.00	4.70	3.70	4.20	0.25	11.55	
	86.00	90.00		1	4.00	3.70	3.70	3.70	0.25	3.70	
	90.00	95.00		1	5.00	3.70	3.70	3.70	0.25	4.63	159.74
								Total Quantity		**285.18**	**Cum**
16	KSRRB M 500-6, Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kglsqm using mechanical means complete as per specifications. As per MORTH specification clause No. 502 (P.No.161, I.No.21.6 of PW,P&IWTD SR 2016-17)										
	Vidhya sagar										
	Tuba layout										
	0.00	15.00		1	15.00	6.60	6.50	6.55		98.25	
	15.00	30.00		1	15.00	6.50	6.60	6.55		98.25	
	30.00	45.00		1	15.00	6.60	6.10	6.35		95.25	
	45.00	60.00		1	15.00	6.10	7.60	6.85		102.75	
	60.00	75.00		1	15.00	7.60	6.70	7.15		107.25	
	75.00	90.00		1	15.00	6.70	5.30	6.00		90.00	
	90.00	108.50		1	18.50	5.30	5.40	5.35		98.98	
	Cross road (Masjidi Road)										
	0.00	15.00		1	15.00	5.10	5.30	5.20		78.00	
	15.00	30.00		1	15.00	5.30	5.20	5.25		78.75	
	30.00	45.00		1	15.00	5.20	4.60	4.90		73.50	
	45.00	60.00		1	15.00	4.60	4.70	4.65		69.75	
	60.00	75.00		1	15.00	4.70	4.70	4.70		70.50	
	75.00	86.00		1	11.00	4.70	3.70	4.20		46.20	
	86.00	90.00		1	4.00	3.70	3.70	3.70		14.80	
	90.00	95.00		1	5.00	3.70	3.70	3.70		18.50	
								Total Quantity		**1140.73**	**Sqm**

Tejus Consultants

Contractor

Assistant Engineer

Assistant Executive Engineer

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Name of Work :- Improvements to Road and Drains at Saraipalya Vidyasagar cross roads in Ward No.196(Thanisandra), Byatarayanapura Sub Division

BOQ Item	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks / Unit
18	KSRRB M500-7 : Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH / Chapter 5 (P.No.161 I.No.21.7 of PW,P&IWTD SR of 2016-17)										
	Vidhya sagar										
	Tuba layout										
	0.00	15.00		1	15.00	6.60	6.50	6.55		98.25	
	15.00	30.00		1	15.00	6.50	6.60	6.55		98.25	
	30.00	45.00		1	15.00	6.60	6.10	6.35		95.25	
	45.00	60.00		1	15.00	6.10	7.60	6.85		102.75	
	60.00	75.00		1	15.00	7.60	6.70	7.15		107.25	
	75.00	90.00		1	15.00	6.70	5.30	6.00		90.00	
	90.00	108.50		1	18.50	5.30	5.40	5.35		98.98	
	Cross road (Masjidi Road)										
	0.00	15.00		1	15.00	5.10	5.30	5.20		78.00	
	15.00	30.00		1	15.00	5.30	5.20	5.25		78.75	
	30.00	45.00		1	15.00	5.20	4.60	4.90		73.50	
	45.00	60.00		1	15.00	4.60	4.70	4.65		69.75	
	60.00	75.00		1	15.00	4.70	4.70	4.70		70.50	
	75.00	86.00		1	11.00	4.70	3.70	4.20		46.20	
	86.00	90.00		1	4.00	3.70	3.70	3.70		14.80	
	90.00	95.00		1	5.00	3.70	3.70	3.70		18.50	
								Total Quantity		**1140.73**	**Sqm**

Checked 11/7/2024

Tejus Consultants

Contractor

Assistant Engineer

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Assistant Executive Engineer

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Scanned with Oken Scanner